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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/751,138	12/29/2000	Markku Verkama	796.379USW1	9196

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EXAMINER

BACKER, FIRMIN

ART UNIT PAPER NUMBER

3621

DATE MAILED: 03/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Applicant's Name

09/751,138

Applicant(s)

VERKAMA, MARKKU

Examiner

Firmen Backer

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Priority Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 December 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

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Response to Argument

1. Applicant's arguments, see paper 10, filed December 26th, 2003, with respect to examination of wrong self claims have been fully considered and are persuasive. The action of paper 9 has been withdrawn.

Claim Objections

2. Claim 1 objected to because of the following informalities: Applicant disclose "the manner, the subscriber, the aid" in paragraph 2, 4, 7 respectively. Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Murto (U.S. Patent No. 5,991,407).

5. As per claim 1 and 10 Murto teaches authentication method for a telecommunications network, especially for an IP network, the method transmitting from a terminal (TE1) to the network an authenticator and a data unit (SPI) containing information relating to the manner in which the authenticator is formed, and in the network, determining a check value by means of the data unit, the check value being compared with the said authenticator, characterized by using such an identification unit in the terminal of the network which receives a challenge as input from which it is possible to determine a response and a key essentially in the same way as in the subscriber identification module of a known mobile communications system, generating a set of subscriber-specific authentication data blocks into the network, each data block, containing a challenge, a response and a key, whereby the generation is performed in the same manner as in the said mobile communications system, transmitting at least some of the challenges contained in the authentication data blocks to the terminal, choosing one of the challenges for use in the terminal, and based on this challenge, determining a response and a key to be used with the aid of the subscriber identity module of the terminal, notifying the network with the aid of the said data unit of which key corresponding to which challenge was chosen, and determining the authenticator and the said check value with the aid of the chosen key (*see figs 6, column 2 lines 9-39, column 3 lines 2-58, 5 lines 10-6 lines 57*).

6. As per claim 2, Murto teaches that the data unit is the SPI (Security Parameter Index) in the registration message of the Mobile IP protocol (*see figs 6, column 2 lines 9-39, column 3 lines 2-58, 5 lines 10-6 lines 57*).

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7. As per claim 3, Murto teaches that the value of the response determined at the terminal is inserted into the data unit (*see figs 6, column 2 lines 9-39, column 3 lines 2-58, 5 lines 10-6 lines 57*).

8. As per claim 4, Murto teaches that the challenges are sorted in an order at the terminal with the aid of predetermined sorting criteria and a consecutive number corresponding to the chosen challenge is inserted into the data unit (*see figs 6, column 2 lines 9-39, column 3 lines 2-58, 5 lines 10-6 lines 57*).

9. As per claim 5, Murto teaches that the identification unit used in the terminal is the subscriber identity module SIM used by the known GSM system and the said authentication data blocks are authentication triplets used by the GSM system (*see figs 6, column 2 lines 9-39, column 3 lines 2-58, 5 lines 10-6 lines 57*).

10. As per claim 6 and 12 Murto teaches that the authentication triplets are fetched from the authentication centre AuC of the GSM system (*see figs 6, column 2 lines 9-39, column 3 lines 2-58, 5 lines 10-6 lines 57*).

11. As per claim 7 and 13 Murto teaches that the challenges to be transmitted to the terminal are transmitted by using a known short message switching service (*see figs 6, column 2 lines 9-39, column 3 lines 2-58, 5 lines 10-6 lines 57*).

12. As per claim 8, Murto teaches that the challenges to be transmitted to the terminal are transmitted in an IP datagram to be sent through an IP network (*see figs 6, column 2 lines 9-39, column 3 lines 2-58, 5 lines 10-6 lines 57*).

13. As per claim 9, Murto teaches that the authentication data blocks are transmitted to the home agent of the terminal and with the aid of the said data unit a message is given to the home agent about which key corresponding to which challenge was chosen, whereby the said check value is determined in the home agent (*see figs 6, column 2 lines 9-39, column 3 lines 2-58, 5 lines 10-6 lines 57*).

Conclusion

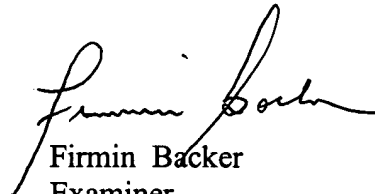
14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. (*see form 892*).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Firmin Backer whose telephone number is (703) 305-0624. The examiner can normally be reached on Mon-Thu 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Trammell can be reached on (703) 305-9768. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Firmin Backer
Examiner
Art Unit 3621

March 3, 2004